

Balancers

Retract Controls

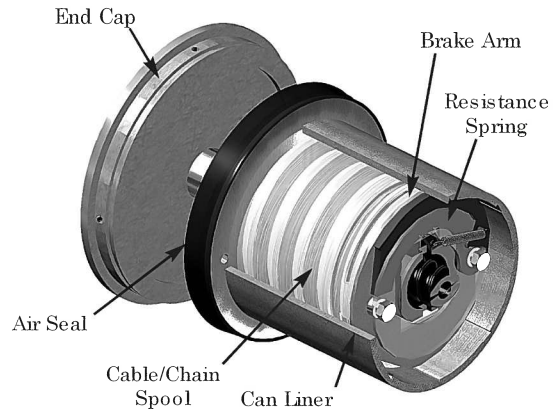
Knight Industries safety retract controls are designed to prevent the cable from accelerating upward if the load is lost. The internal retract control is standard equipment, the external control is available as an option.

The internal safety retract control* is activated by abnormally fast rotation of the chain/cable spool. The brake arm is held in place by a resistance spring during normal operation. If the load changes suddenly, centrifugal force causes the brake arm to overcome spring pressure and the brake arm lodges in the grooves in the balancer liner.

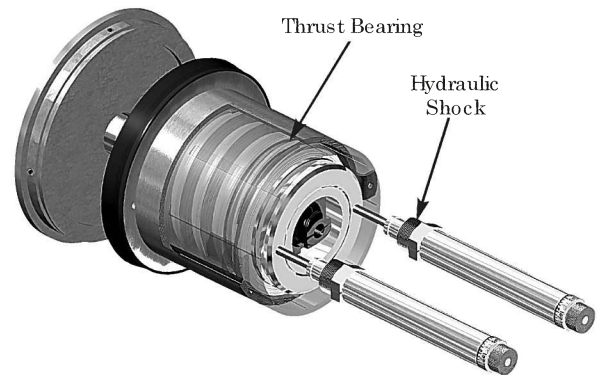
The external safety retract control consists of two hydraulic shocks mounted on the balancer cap opposite the air manifold. Within the balancer, a cable/chain spool winds and unwinds moving horizontally along a ball screw. The hydraulic shocks provide continuous resistance to the spools horizontal travel. If the load is lost, the constant resistance prevents the spool from accelerating.

Note: Some stroke length will be lost when using the external retract control.

* Activation of the internal retract control is not instantaneous. This device takes a brief moment to accelerate to a speed where the brake arm will engage.



Standard Internal Retract Control
U.S. Patent Number 5,553,832



Optional External Retract Control
U.S. Patent Number 5,492,306

Balancer Accessories



A



B



C



D

	Model	Description
A	MRTA2013	I-Beam Trolley
B	BPA2016	Top Mount Single Hanger Hook Assembly
C	RWA4171	Dual Drum Balancer Trolley Adapter Assembly
D	BPA2224	Balancer Limit Switch Assembly